incognito LM10

Local Input Module

Installation Guide

Cambridge Audio

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INTRODUCTION

Thank you for purchasing this Cambridge Audio Incognito product. The LM10 Local Input Module is an in-wall module that allows the user to add an additional local source to those distributed by the AH10.

The local source may only be heard in the room where it is connected and the corresponding sub-zone (if connected) and is not distributed to other rooms. LM10s can be fitted in as many rooms as are desired. The LM10 connects between the audio hub and a KP10 amplified control module using Cat-5/5e wiring.

Each main zone can support two LM10s, giving you the option of listening to one or two local sources (eg. Playstation, MP3 player). Each local source can be controlled through the Incognito remote and/or keypad (see instructions on entering local source rotate mode on page 15). The LM10 can also support subzones (where fitted) so that the local source is audible in both main and subzone areas.

Now we invite you to sit back, relax and enjoy!

Matthew Bramble
Technical Director

SPECIFICATION

Max line level inputs

2.2 V rms

Cat-5 connection type

EU Version - Krone punchdown

CU Version - 110 punchdown

Dimensions

EU Version - 50 x 50 x 48mm

CU Version - 44 x 70 x 54mm

Weight

100g

Maximum cable length

30M/100ft

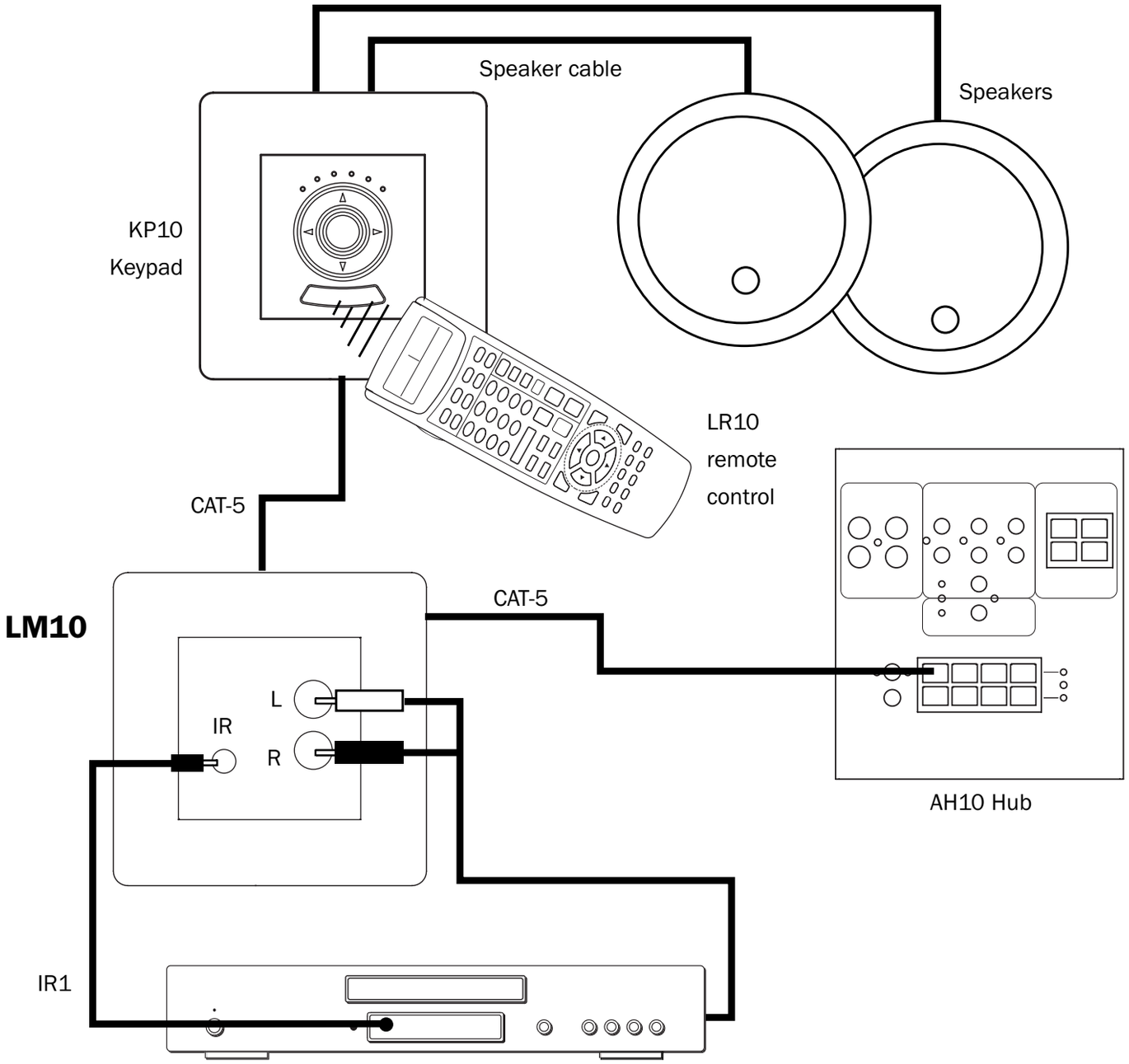
IR (Infra-red output)

Modulated 34–40 kHz and
55–59 kHz supported

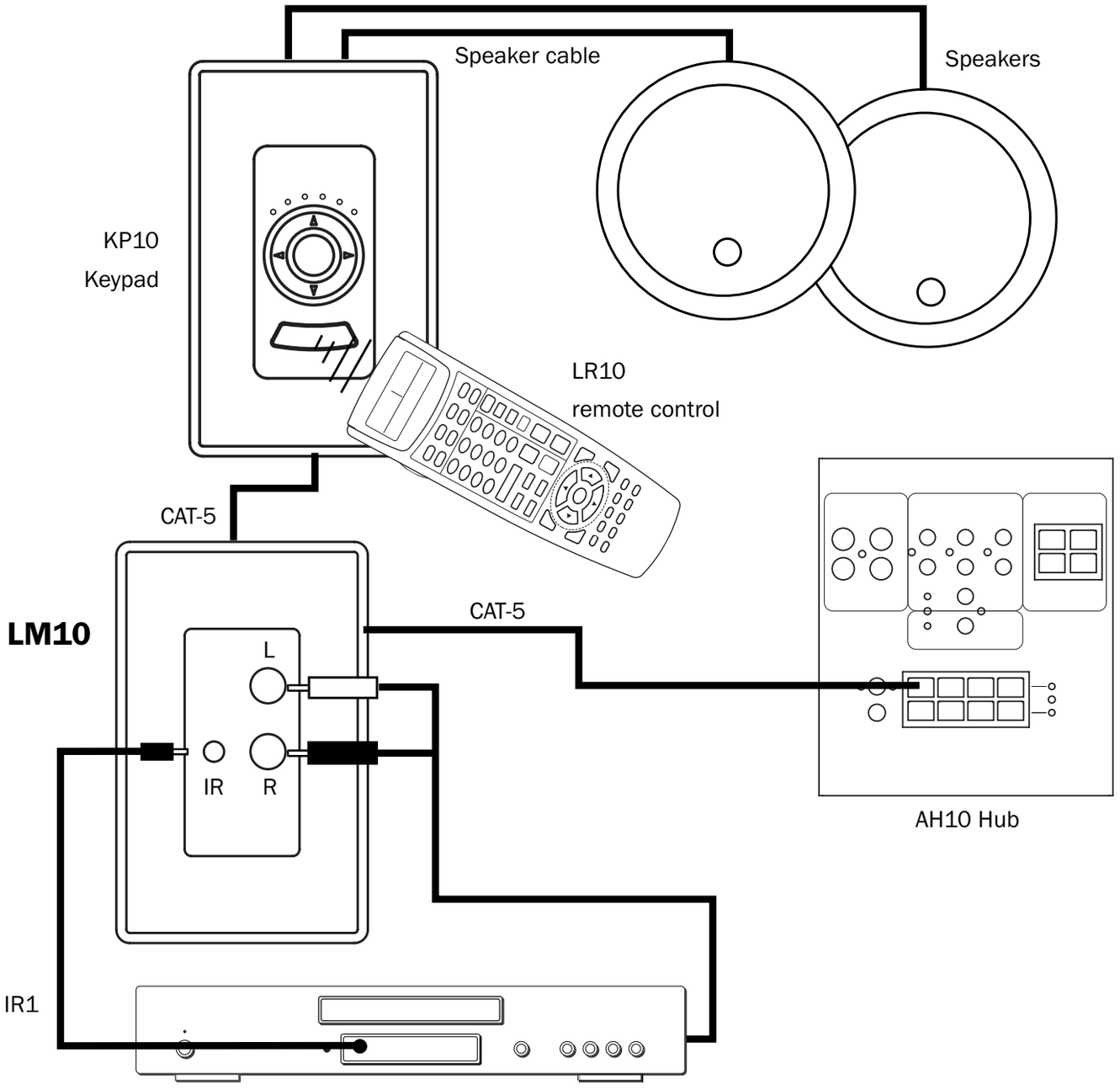
Power requirement

24V DC @ 20 mA max (supplied by hub)

SYSTEM SET-UP (EU VERSION)



SYSTEM SET-UP (CU VERSION)



MOUNTING THE LM10

Locate the LM10 near the local source. Check all connections and test the system's operation before installing the LM10 into the wall. Using the included hardware, install the LM10 into a standard electricians back-box (pattress) (LM10-EU=UK47mm depth single gang, LM10-CU=USA-type J-box 50mm).

Important

Care should be taken in choosing a site for the LM10, ALWAYS refer to the precautions later in this guide. Bear in mind that any local sources will likely require mains power.

The LM10 must never be installed in a back-box (pattress) which also contains mains wiring. The recommended maximum length for use with standard Cat-5 cable is 30m from hub to LM10 to keypad in total. Screened Cat-5 can also be used.

FITTING THE LM10

Note: The LM10 is powered via the Cat-5 cable and no mains connection is required.

The procedure for fitting is as follows:

Remove the supplied faceplate from the LM10 by gently prising apart. It will 'pop' off.

Connect each wire in the Cat-5 cable to its respective terminal in the punch-down connector on the back of the LM10.

Be very careful to follow the colour-code that is indicated on the connector. Always double-check your connections, and your punching.

Fit the LM10 to the back-box (pattress) that you have fitted in your wall. This is done with the two supplied screws (LM10-EU=M 3.5mm x 20, LM10-CU=6 x 32 pitch UNC x 6mm Countersunk).

Gently push the faceplate back on to the module.

SAFETY PRECAUTIONS

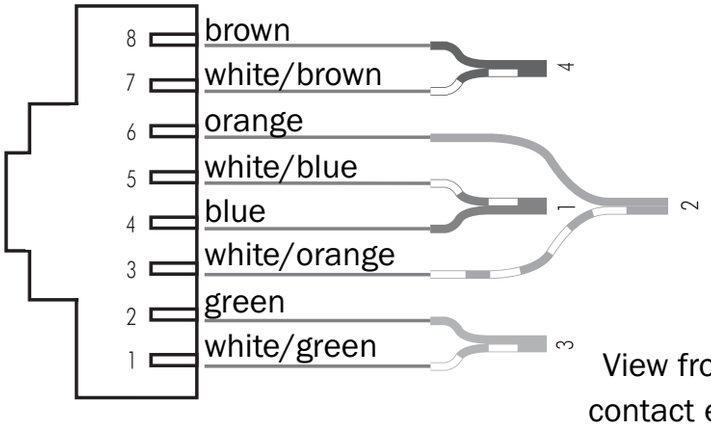
Avoid placing the LM10 near to dimmer switches or other items, which generate a lot of electrical noise. Avoid fitting the LM10 in areas of high humidity.

The LM10 runs on 24V DC supplied through the connecting cable. As such there is no mains voltage present in the LM10 and the unit is often safe to fit in areas where only extra low voltage (ELV) equipment is permitted. However, it is imperative that you always check the wiring regulations in force for your application and area.

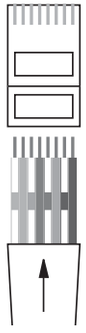
FACEPLATES

The LM10 faceplate system is based on the (LM10-EU=50x50 'easy-clip' module, LM10-CU=Decora™) standard and is interchangeable for the wide range of faceplates made by manufacturers such as (LM10-EU=MK Electric, RPP etc, LM10-CU=Leviton etc) that conform to this standard. If it is desired to fit another faceplate, it can be replaced by gently prising apart the LM10 faceplate and snapping on another in its place.

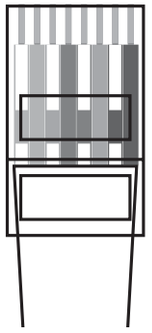
WIRING GUIDE: EIA/TIA 568A WIRING STANDARD



View from contact end



Gather pairs, trim and insert into RJ45 plug



Crimp wires securely in place

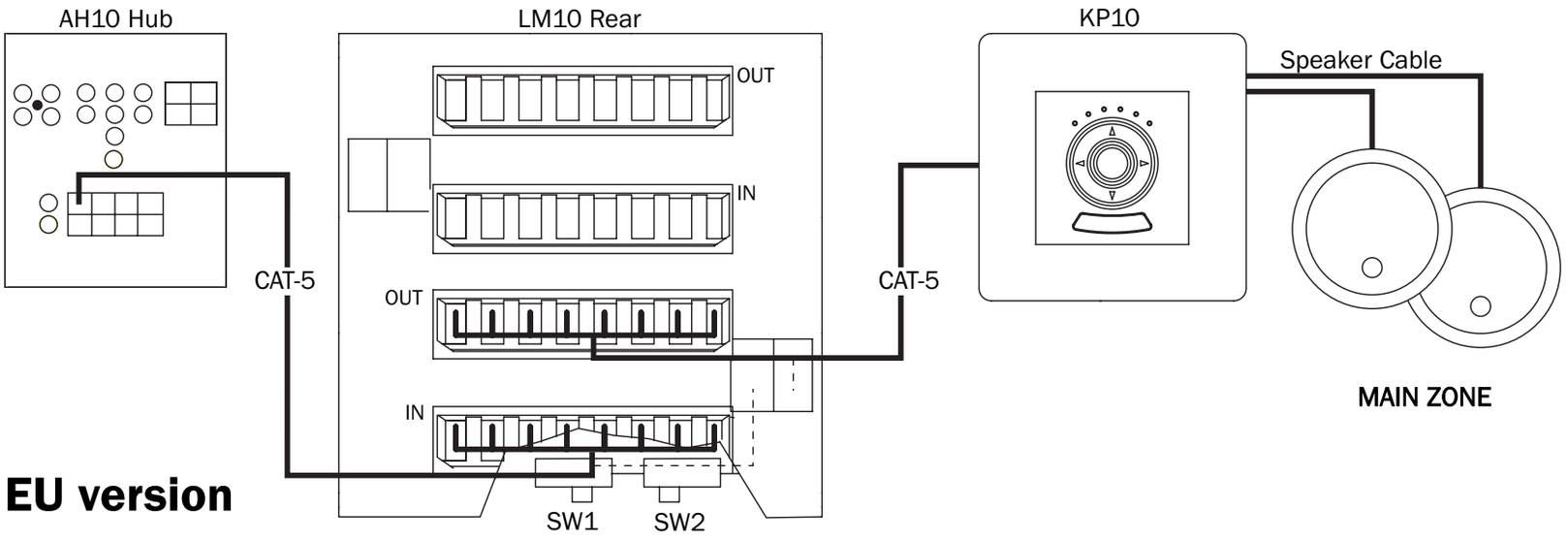
CAT-5 CONNECTIONS

A Cat-5 cable is used to connect the LM10 to a keypad output on an AH10 hub and to a KP10 amplified control module. Use Cat-5 cables (use EIA/TIA 568A RJ-45 wire configuration, see page 7) to connect from the hub to a LM10 wall plate (optional), and then wire from the wall plate to the KP10 (see opposite diagrams). The LM10 has punchdown connectors for the eight individual conductors of the Cat-5 cable, use a punchdown tool (LM10-EU=Krone, LM10-CU=110+ blade) to insert conductors. If using shielded Cat-5 cable, connect the shields to the green terminal blocks as shown in the opposite diagrams (dotted lines).

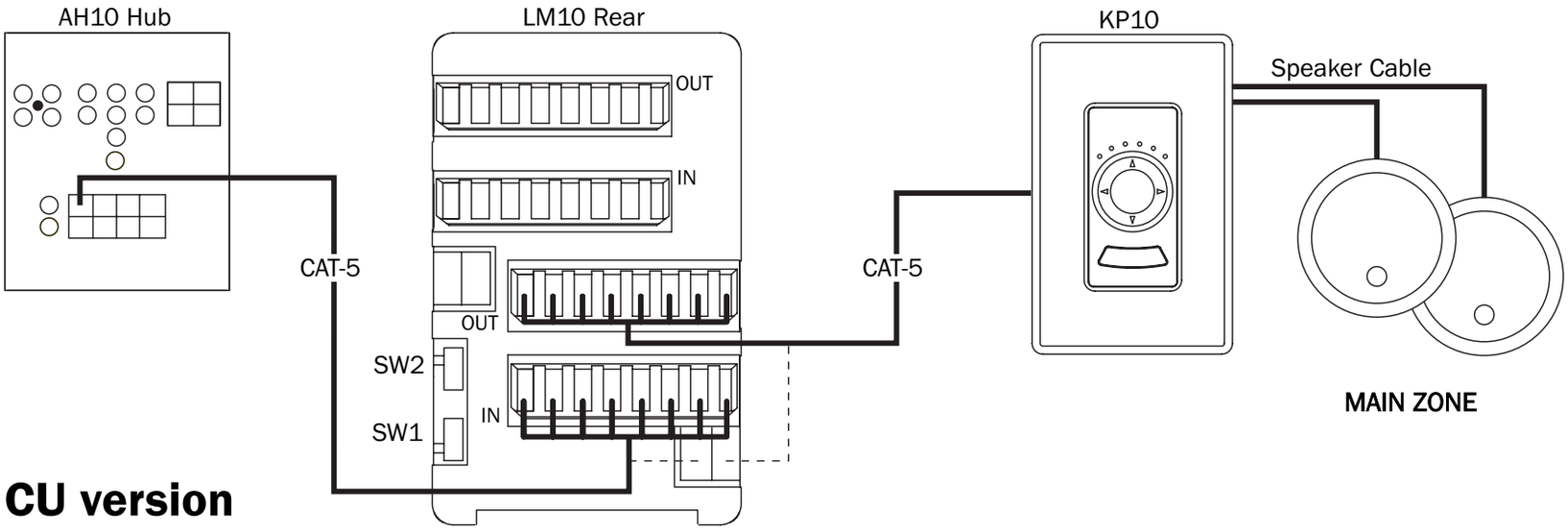
Note: When wiring directly to the LM10, crimp on a male RJ-45 connector using the EIA/TIA 568A RJ-45 wire configuration (see Wiring Guide: EIA/TIA 568A wiring standard on page 7) for connection to the hub.

Single local audio source

Connect the LM10 as shown in the diagrams. Switch over SW1 (LC1) to the ON position and SW2 (LC2) to the OFF position. The LM10 will respond to the Local 1 remote command when selected.



EU version



CU version

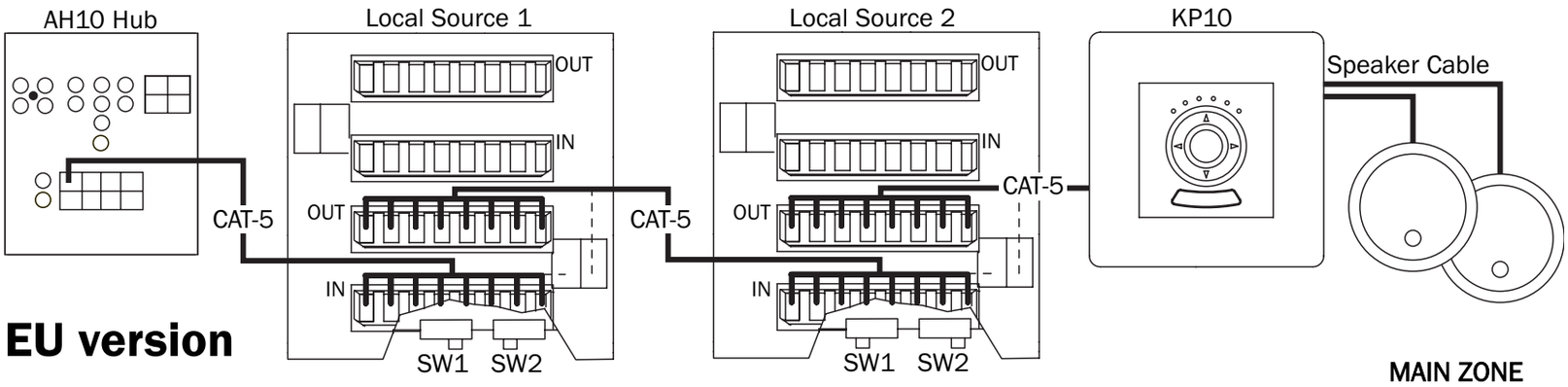
CAT-5 CONNECTIONS CONTINUED

It is possible to add up to two LM10 units per main zone. This gives you the option to listen to either one by selection from the keypad or LR10 remote control (Local1/Local 2). The module needs to be told whether there are one or two LM10's present.

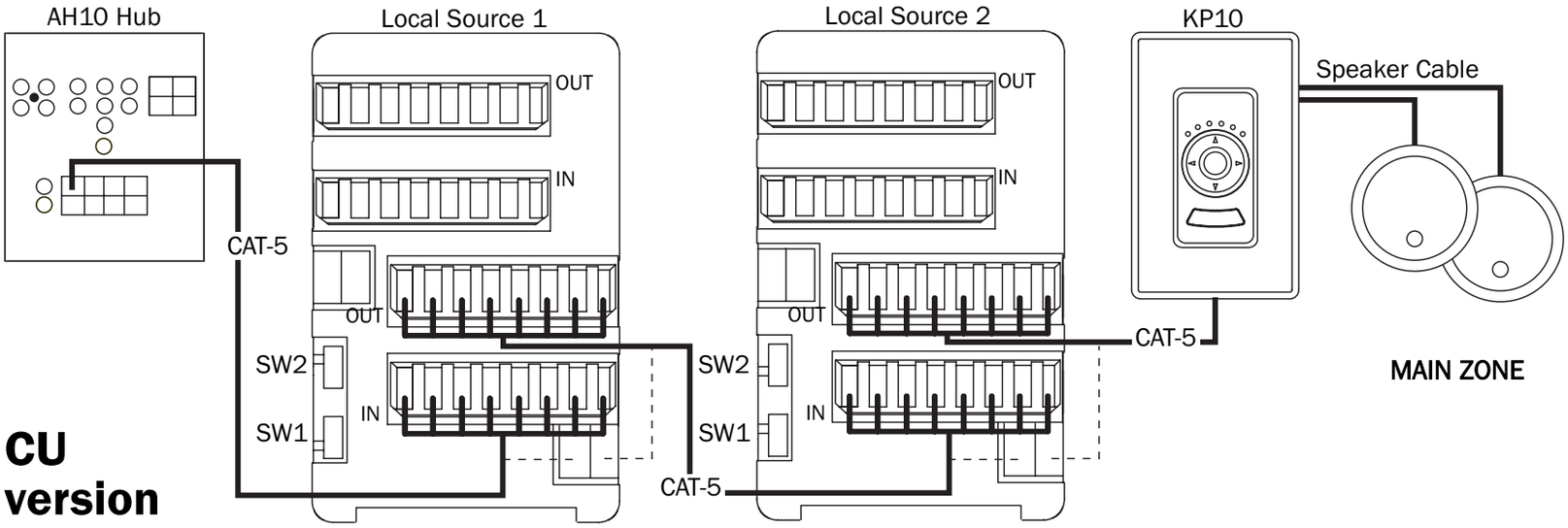
Dual LM10s fitted in a single zone

Connect the LM10s as shown in the opposite diagrams.
Local Source 1 – Switch over SW1 (LC1) to the ON position and SW2 (LC2) to the OFF position.
Local Source 2 – Switch over SW1 (LC1) to the OFF position and SW2 (LC2) to the ON position.

Note: If using an LR10 to select the local source, this will ONLY select Local 1 as default.



EU version

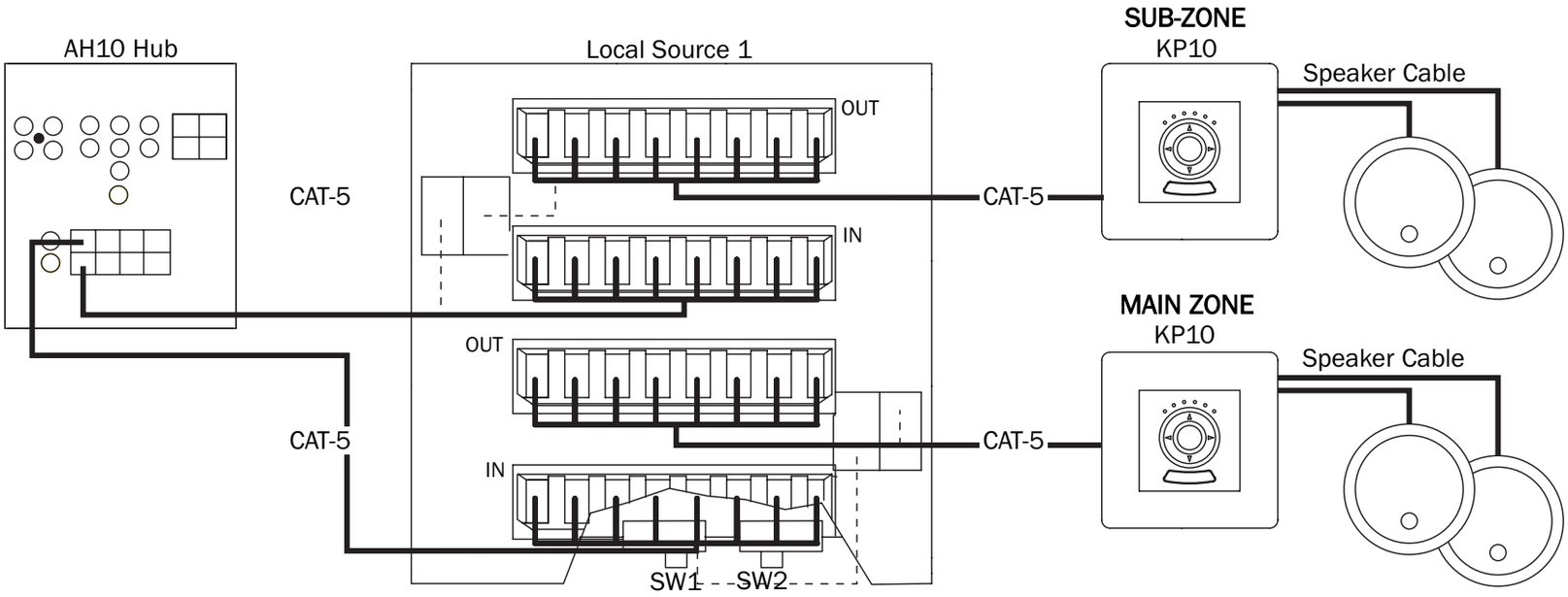


CU version

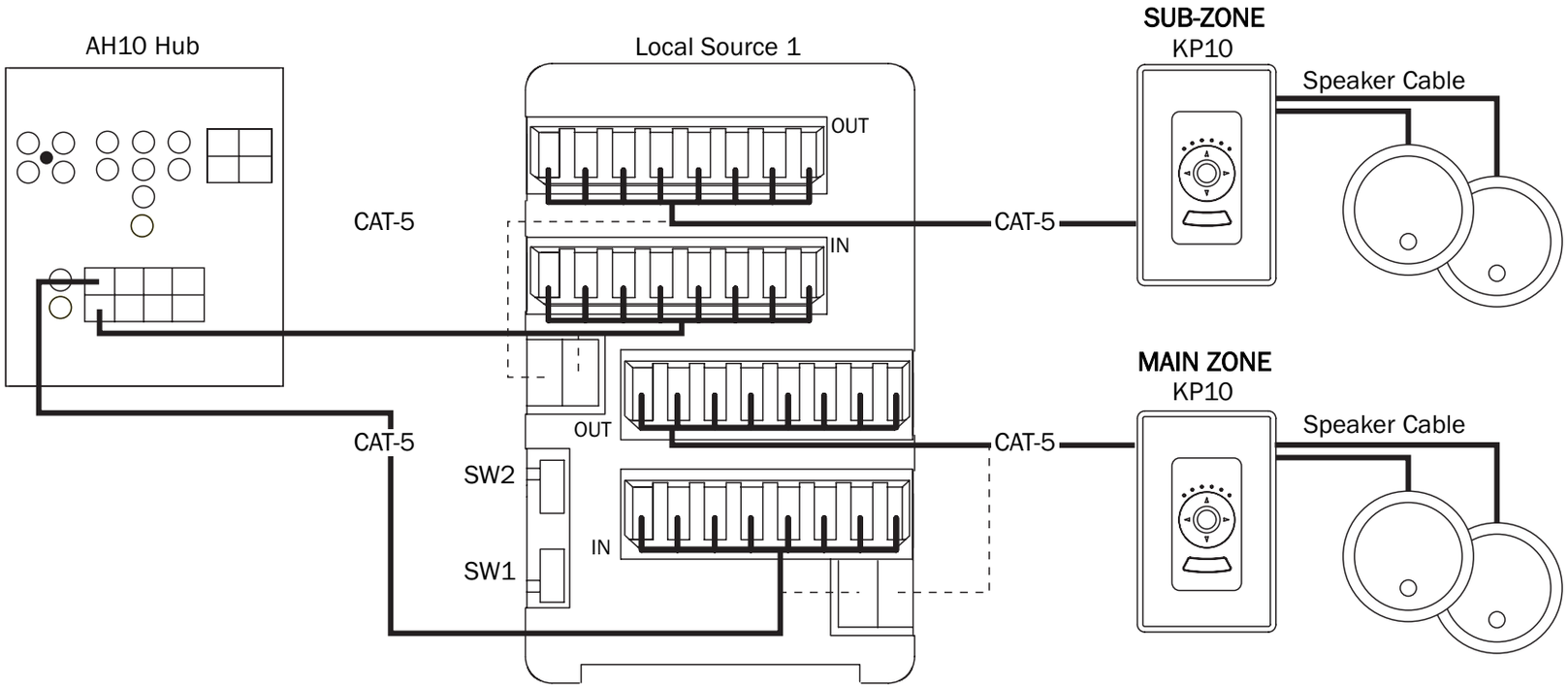
CAT-5 CONNECTIONS CONTINUED

Single LM10 with main and sub-zone fitted
Connect the LM10 as shown in the diagrams. Switch over SW1 (LC1) to the ON position and SW2 (LC2) to the OFF position. The LM10 will respond to the Local 1 remote command when selected.

EU version



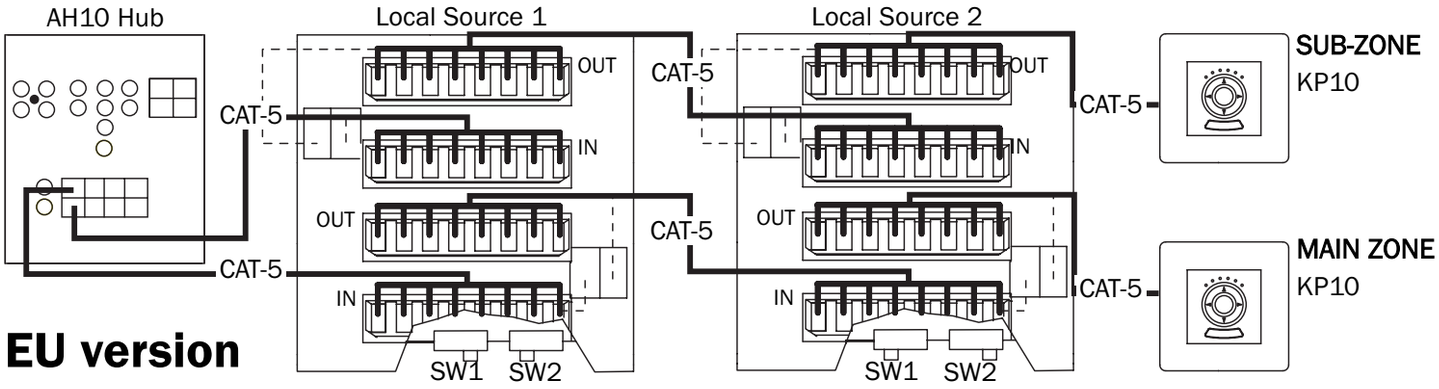
CU version


AH10 Hub
Local Source 1
SUB-ZONE
KP10
Speaker Cable
OUT
CAT-5
CAT-5
IN
OUT
MAIN ZONE
KP10
CAT-5
CAT-5
Speaker Cable
SW2
IN
SW1

CAT-5 CONNECTIONS CONTINUED

Dual LM10s with main and sub-zones fitted
Connect the LM10s as shown in the diagrams.
Local Source 1 – Switch over SW1 (LC1) to the ON position and SW2 (LC2) to the OFF position.
Local Source 2 – Switch over SW1 (LC1) to the OFF position and SW2 (LC2) to the ON position.

Note: If using an LR10 to select the local source, this will ONLY select Local 1 as default.



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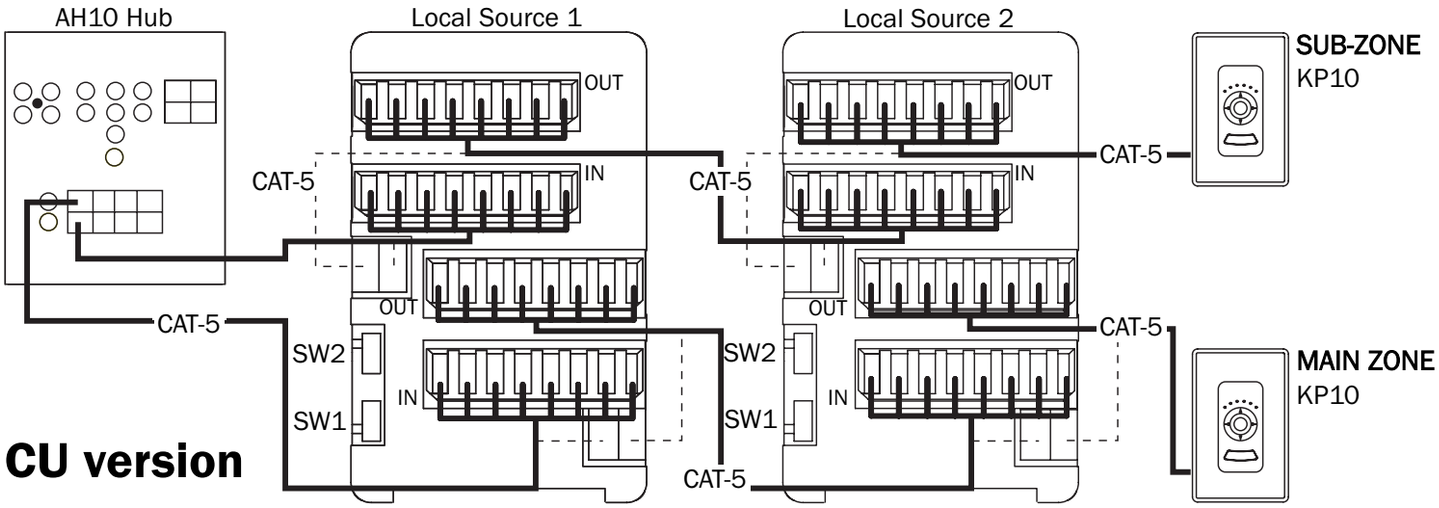


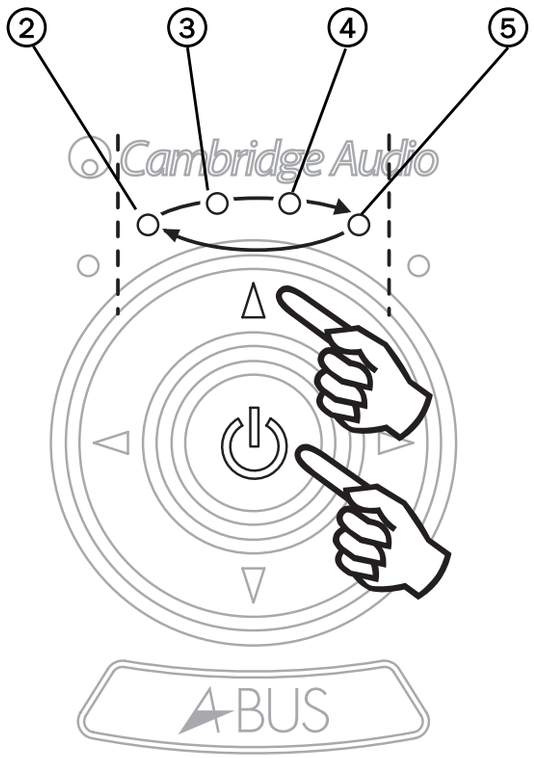
CU version

SOURCE ROTATE FOR LOCAL 1&2 ON THE KEYPAD

Note: This feature is only available if the KP10 is part of a full Incognito multi-room system with one or two Local Input Modules (LM10) fitted.

The local source selection mode will need to be activated to configure the KP10 correctly. This mode is only available when the Mode Switch is set to “AH10” mode. LM10s can only be used in this mode. Please refer to your LM10 Installation Guide for more information.

Pressing the Select left or right buttons on the keypad allows you to rotate through all six sources as default. However, it is possible to allow the addition of one or two local sources by accessing **Local source selection mode**. To enter this mode press the Volume up button simultaneously with the Power button for four seconds; the LED display will then scroll through the sequence shown in the illustration right and described as follows:



After holding both buttons down for a short period, LED 2 will light indicating that **Sources 1–6** (default) are available for selection.

SOURCE ROTATE FOR LOCAL 1&2 ON THE KEYPAD CONTINUED

Continuing to hold both keys down will light LED 3 indicating that **Sources 1–6 + Local source 1 mode** is available for selection.

Continuing to hold both buttons will light LED 4 indicating that **Sources 1–6 + Local source 1 + Local source 2 mode** is available for selection.

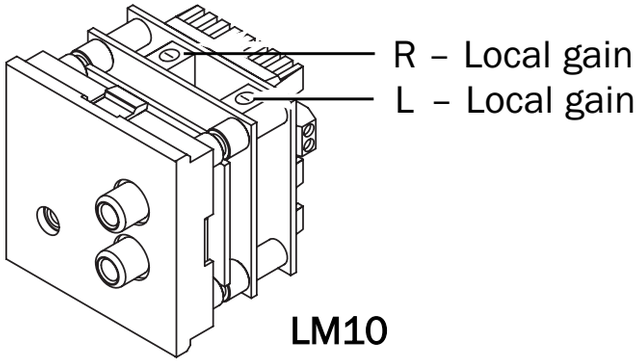
Continuing to hold Volume up and Power buttons will light LED 5, to indicate that **Off mode** is available for selection, and no source will be selected.

To select these modes, wait till the corresponding LED is lit and then release Power and Volume up buttons.

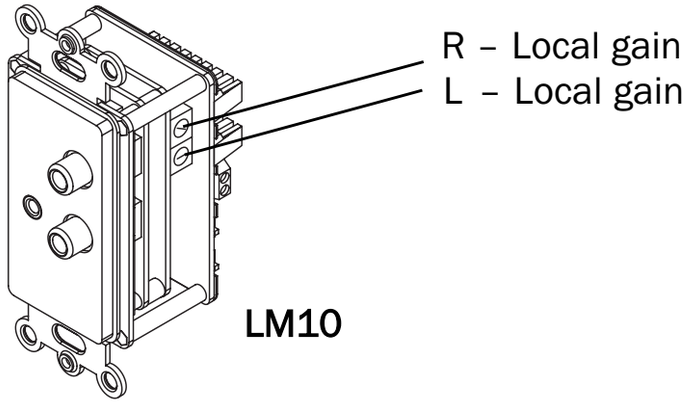
Note: If no adjustment is made the system will automatically go back to volume adjustment after two seconds. If “Standard A-BUS/Incognito Ready” mode is selected on the Mode switch, the KP10 will only rotate round the main 6 sources.

AUDIO LEVEL ADJUSTMENT

The LM10 has independent gain level adjustments for local source inputs. Adjust levels as required using a small trimmer. Turning the gain level pots clockwise increases the audio level and anti -clockwise decreases it.



EU version



CU version

The LM10 also has a local infra-red (IR) output allowing for local source equipment to be controlled via an IR1. This will only pass through remote source or commands once the local source has been selected (Local 1 or Local 2) from the LR10 remote or KP10 keypad. Having selected the local source, you will be able to listen to whatever source has been connected to the R/L phono sockets on the LM10.

LIMITED WARRANTY

Cambridge Audio warrants this product to be free from defects in materials and workmanship (subject to the terms set forth below). Cambridge Audio will repair or replace (at Cambridge Audio's option) this product or any defective parts in this product. Warranty periods may vary from country to country. If in doubt consult your dealer and ensure that you retain proof of purchase.

To obtain warranty service, please contact the Cambridge Audio authorised dealer from which you purchased this product. If your dealer is not equipped to perform the repair of your Cambridge Audio product, it can be returned by your dealer to Cambridge Audio or an authorised Cambridge Audio service agent. You will need to ship this product in either its original packaging or packaging affording an equal degree of protection.

Proof of purchase in the form of a bill of sale or receipted invoice, which is evidence that this product is within the warranty period, must be presented to obtain warranty service.

This warranty is invalid if (a) the factory-applied serial number has been altered or removed from this product or (b) this product was not purchased from a Cambridge Audio authorised dealer. You may call Cambridge Audio or your local country Cambridge Audio distributor to confirm that you have an unaltered serial number and/or you purchased from a Cambridge Audio authorised dealer.

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